

(FILE 'HOME' ENTERED AT 16:20:06 ON 24 SEP 1999)

FILE 'USPAT' ENTERED AT 16:20:25 ON 24 SEP 1999

L1 1 S SESMIC(3A)WAVE#
L2 1653 S SEISMIC(3A)WAVE#
L3 769 S L2(4A)(GENERAT? OR PRODUC? OR SIMULAT?)
L4 111 S ELASTIC?(4A)ENERGY(4A)ACCUMULAT?
L5 60 S L3(5A)(IMPACT? OR EXPLOSIVE OR ENERGY(4A)TRANSFER)
L6 10 S L5/CLM
L7 16 S L4/CLM
L8 0 S L7 AND L2
L9 1 S L4 AND L2
L10 160 S L3 (4A)(ELASTIC? OR ACCUMULAT? OR ENERG?)
L11 17 S L10 AND L5
L12 0 S L11/CLM
L13 0 S L5/TI
L14 20 S L3/TI
L15 16 S L14 AND (IMPACT? OR EXPLOSIV? OR ENERGY(4A)TRANSDFER?)
L16 17 S L14 AND (IMPACT? OR EXPLOSIV? OR ENERGY(4A)TRANSFER?)
L17 8 S L14 AND (IMPACT? OR EXPLOSIV? OR ENERGY(4A)TRANSFER?)/CL
M

=> d 16 1-;d 1 11 1-;d 1-

1. 5,614,670, Mar. 25, 1997, Movable seismic pavement analyzer; Soheil Nazarian, et al., 73/146, 8 [IMAGE AVAILABLE]
2. 4,873,675, Oct. 10, 1989, Method and apparatus for seismic exploration of strata surrounding a borehole; Frederick J. Barr, Jr., et al., 367/57; 181/106; 367/912 [IMAGE AVAILABLE]
3. 4,804,062, Feb. 14, 1989, Baseplate assembly for seismic wave generator; Tom P. Airhart, 181/121, 401 [IMAGE AVAILABLE]
4. 4,782,911, Nov. 8, 1988, Seismic recording; Raymond M. Dixon, et al., 181/107; 102/200; 367/55 [IMAGE AVAILABLE]
5. 4,770,269, Sep. 13, 1988, Closed air system seismic wave generator; Andrew B. Woodrow, 181/121; 173/202; 181/119; 267/124, 129 [IMAGE AVAILABLE]
6. 4,192,553, Mar. 11, 1980, Method for attenuating seismic shock from detonating explosive in an in situ oil shale retort; Irving G. Studebaker, et al., 299/2; 102/301; 181/296 [IMAGE AVAILABLE]
7. 4,124,090, Nov. 7, 1978, Bounceless seismic wave generator; Charles B. Reynolds, et al., 181/121; 173/126, 131; 181/114, 401 [IMAGE AVAILABLE]
8. 4,059,820, Nov. 22, 1977, Seismic wave generator and method of geophysical prospecting using the same; Roger M. Turpening, 367/140; 89/1.35; 181/113, 116; 367/59, 75 [IMAGE AVAILABLE]
9. 4,015,526, Apr. 5, 1977, Explosive charge; John Alan Bond, et al., 181/116; 102/331; 181/118 [IMAGE AVAILABLE]
10. 3,958,661, May 25, 1976, Method and apparatus for generating seismic

=> d 111 1-

1. 5,614,670, Mar. 25, 1997, Movable seismic pavement analyzer; Soheil Nazarian, et al., 73/146, 8 [IMAGE AVAILABLE]
2. 5,154,254, Oct. 13, 1992, Mass retrieval for acoustic pulse generator; David D. Thompson, et al., 181/121, 114; 367/189 [IMAGE AVAILABLE]
3. 4,937,793, Jun. 26, 1990, Processing method for marine seismic surveying utilizing dual streamers; Edward L. Shuck, et al., 367/24, 20 [IMAGE AVAILABLE]
4. 4,804,062, Feb. 14, 1989, Baseplate assembly for seismic wave generator; Tom P. Airhart, 181/121, 401 [IMAGE AVAILABLE]
5. 4,794,573, Dec. 27, 1988, Process for separating upgoing and downgoing events on vertical seismic profiles; David W. Bell, et al., 367/57; 702/17 [IMAGE AVAILABLE]
6. 4,770,269, Sep. 13, 1988, Closed air system seismic wave generator; Andrew B. Woodrow, 181/121; 173/202; 181/119; 267/124, 129 [IMAGE AVAILABLE]
7. 4,693,335, Sep. 15, 1987, Multi channel borehole seismic surveying tool; Harold A. Almon, 181/102; 73/152.58; 175/40; 181/112; 367/25, 911 [IMAGE AVAILABLE]
8. 4,692,909, Sep. 8, 1987, Adaptive seismic signal processor; Michael F. Gard, et al., 367/45, 49; 702/17 [IMAGE AVAILABLE]
9. 4,271,925, Jun. 9, 1981, Fluid actuated acoustic pulse generator; Kenneth E. Burg, 181/120, 106, 119; 367/142 [IMAGE AVAILABLE]
10. 3,993,974, Nov. 23, 1976, Seismic method for determining the position of the bit on a drill stem in a deep borehole; Daniel Silverman, et al., 367/36; 181/102, 119, 120 [IMAGE AVAILABLE]
11. 3,958,661, May 25, 1976, Method and apparatus for generating seismic waves; Clifford D. Dransfield, et al., 181/117, 401 [IMAGE AVAILABLE]
12. 3,946,357, Mar. 23, 1976, Method and apparatus for seismic geophysical exploration; David Harold Weinstein, et al., 367/77, 63 [IMAGE AVAILABLE]
13. 3,898,610, Aug. 5, 1975, Method for prediction of abnormal pressures from routine or special seismic records; Eugene S. Pennebaker, Jr., 367/38, 33, 73 [IMAGE AVAILABLE]
14. 3,891,963, Jun. 24, 1975, Coded radio shooting unit; Curtis B. Herbert, Jr., 367/55; 342/50; 380/9 [IMAGE AVAILABLE]
15. 3,790,929, Feb. 5, 1974, SKIP-SPREAD METHOD FOR SEISMIC SURVEYING; William Harry Mayne, et al., 367/21, 56 [IMAGE AVAILABLE]
16. 3,750,837, Aug. 7, 1973, EXPLOSIVE SEISMIC ENERGY SOURCE WITH QUICK RELEASE VALVE; Charles D. Wood, 181/118; 367/145 [IMAGE AVAILABLE]

17. 3,702,635, Nov. 14, 1972, SEISMIC ENERGY SOURCE USING LIQUID
EXPLOSIVE; John B. [REDACTED], 166/299, 300; 175/1; 181/11 [REDACTED] [IMAGE AVAILABLE]

waves; Clifford D. Dransfield, et al., 181/117, 401 [IMAGE AVAILABLE]

8 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET
SIZE

ENTER ANSWER NUMBER OR RANGE (1):1

'L' IS NOT A VALID FORMAT FOR FILE 'USPAT'
ENTER DISPLAY FORMAT (CIT):cit

1. 4,980,874, Dec. 25, 1990, Method and apparatus for maximizing
seismic shear wave production; Mahlon G. Justice, Jr.,
367/190; 181/113, 114, 121; 367/75 [IMAGE AVAILABLE]

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seismic shear wave production; Mahlon G. Justice, Jr.,
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2. 4,804,062, Feb. 14, 1989, Baseplate assembly for **seismic wave
generator**; Tom P. Airhart, 181/121, 401 [IMAGE AVAILABLE]

3. 4,770,269, Sep. 13, 1988, Closed air system **seismic wave
generator**; Andrew B. Woodrow, 181/121; 173/202; 181/119; 267/124, 129
[IMAGE AVAILABLE]

4. 4,497,044, Jan. 29, 1985, **Seismic wave generator**; Daniel
Silverman, 367/41; 181/107, 111, 116; 367/40, 57 [IMAGE AVAILABLE]

5. 4,124,090, Nov. 7, 1978, Bounceless **seismic wave
generator**; Charles B. Reynolds, et al., 181/121; 173/126, 131;
181/114, 401 [IMAGE AVAILABLE]

6. 4,102,429, Jul. 25, 1978, Apparatus for **generating seismic
waves**; Clifford D. Dransfield, 181/117, 114 [IMAGE AVAILABLE]

7. 4,059,820, Nov. 22, 1977, **Seismic wave generator** and
method of geophysical prospecting using the same; Roger M. Turpening,
367/140; 89/1.35; 181/113, 116; 367/59, 75 [IMAGE AVAILABLE]

8. 3,958,661, May 25, 1976, Method and apparatus for **generating
seismic waves**; Clifford D. Dransfield, et al., 181/117, 401
[IMAGE AVAILABLE]